

CROWN ALLOYS COMPANY

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CROWN GALV BULK

MATERIAL SAFETY DATA SHEET

Section 1 - COMPANY AND MATERIAL IDENTIFICATION

PRODUCT TYPE: Cold-galvanizing zinc primer in one gallon bulk containers.

TRADE NAME: Crown-Galv (bulk)

CLASSIFICATION: Zinc Galvanizing (bulk)

VENDOR: Crown Alloys Company
ADDRESS: 30105 Stephenson Hwy.
 Madison Heights, MI. 48071
TELEPHONE: (248) 588-3790
WEBSITE: www.crownalloys.com
DATE: November 4, 2003

Emergency 24 hour telephone #
CHEMTREC (800) 424-9300

Section 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

IMPORTANT! This section covers the material from which these products are manufactured. The fumes and gases produced when welding with normal use of these products are covered in Section 5.

Ingredient	CAS No.	OSHA PEL	ACGIH TLV	VAPOR PRESSURE mm Hg @ TEMP.	WEIGHT PERCENT
* Zinc Flake	7440-66-6				66.28
**Xylene	1330-20-7	100 ppm TWA	100 ppm TWA	5.1 @ 68°F	16.51
High Flash VM&P Naphtha	64742-88-7	500 ppm TWA	100 ppm	5.0 @ 68°F	2.96
* Zinc Oxide	1314-13-2	5 mg/m ³ TWA Respirable Dust	5 mg/m ³ TWA	N/A	2.05
**Ethyl Benzene	100-41-4		100 ppm TWA 125 ppm (STEL)	10.0 @ 85°F	1.55

*These chemical compounds are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Super Fund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

**Indicates hazardous air pollutant.

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Section 3 - PHYSICAL and CHEMICAL CHARACTERISTICS

Boiling Range:	265°F – 279°F	Specific Gravity (H₂O=1):	2.31
Vapor Density(Air=1):	Heavier than air	Evaporation Rate:	Slower than ether
Solubility in Water:	Negligible	Coating VOC (Less Exempt):	4.35 lb/gl
Material VOC:	4.35 lb/gl		
Appearance and Odor:	Pourable liquid with characteristic odor.		

Section 4 - FIRE and EXPLOSION HAZARD DATA

Flash Point (Lowest Component):	59°F	
Tested Flash Point and Method Used:	>80°F - TCC	
Flammable Limits in Air % by Volume:	Lower: 0.5%	Upper: 6.6%
Extinguishing Media:	Dry chemical, carbon dioxide	
Special Firefighting Procedures:	The use of a self-contained breathing apparatus is recommended for fire fighters. Avoid the use of water for cooling. Use CO ₂ or dry chemicals for fighting the fire.	
Unusual Fire and Explosion Hazards:	WARNING! MATERIAL IS FLAMMABLE. Use only CO ₂ or dry chemicals to fight the fire. Keep all unprotected personnel out of fire area.	
NFPA NUMERICAL CODES:	Health Hazard	2
	Fire Hazard	2
	Reactivity Hazard	0
	Other	None

HAZARD RATING
4 – Severe Hazard
3 – Serious Hazard
2 – Moderate Hazard
1 – Slight Hazard
0 – Minimal Hazard

Section 5 - REACTIVITY DATA

STABILITY:	Crown Galv is reactive with water.
Conditions To Avoid:	Open flames, sparks and/or high temperatures. Also exposure to water.
Incompatibility (Materials to Avoid):	Avoid contact with strong oxidizing agents, alkalis, omnes, potassium, magnesium, sodium and other active metals. Also Crown Galv is incompatible with water.
Hazardous Decomposition or Byproducts:	Thermal decomposition in the presence of air may yield smoke, fumes, zinc oxide, carbon monoxide and aldehydes.
HAZARDOUS POLYMERIZATION:	Will not occur.
Conditions To Avoid:	None known.

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Section 6 - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Excessive exposure may cause severe irritation to nose, throat, mucous membranes and respiratory tract along with dizziness, nausea, headaches, vomiting, impaired coordination and loss of consciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

SKIN: Prolonged or repeated exposure may cause severe irritation and discomfort and may lead to dermatitis. Repeated minor exposure may result in absorption of harmful amounts.

EYES: May cause severe irritation and discomfort. Reversible and/or irreversible damage may occur.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

May cause nausea, vomiting, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Excessive exposure may cause blood, lung, liver and kidney damage. Crown Galv Bulk is moderately toxic by ingestion, skin absorption and inhalation. Notice: Studies have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

CARCINOGENICITY: N/A **NTP CARCINOGEN:** NO **IARC MONOGRAPHS:** NO
OSHA REGULATED: YES

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

AGGRAVATED BY EXPOSURE: Existing dermatitis and lung disorders may be aggravated by exposure.

EXPOSURE LIMITS: Not established for this product as a whole, refer to SECTION 2 for exposure limits of hazardous constituents.

EMERGENCY FIRST AID PROCEDURES:

Inhalation:	Primary route of exposure. Remove to fresh air. Resuscitate if necessary. Get aid.
Eye Contact:	Flush with plenty of water. If irritation should occur, contact physician.
Skin Contact:	Wash with soap and water. If irritation should occur, contact physician.
Ingestion:	Unlikely route of exposure. DO NOT INDUCE VOMITING. CALL PHYSICIAN.

Section 7 - PRECAUTIONS FOR SAFE HANDLING & USE/APPLICABLE

CONTROL MEASURES

RESPIRATORY PROTECTION: If vapor concentration exceeds TLV, use a respirator approved by the U.S. Bureau of Mines for organic vapor. Must be a NIOSH/MSHA approved respirator.

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Section 7 - PRECAUTIONS FOR SAFE HANDLING & USE/APPLICABLE CONTROL MEASURES(cont.)

PROTECTIVE CLOTHING: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

EYE PROTECTION: Use splash goggles or face shield when eye contact may occur.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below TLV's.

HYGIENIC WORK PRACTICES: Wash hands with soap and water before eating, drinking, smoking, or using restroom. Launder contaminated clothes before reuse.

PROCEDURE FOR CLEANUP OF SPILLS OR LEAKS: Eliminate all ignition sources. Keep people away. Minimize skin contact and breathing vapors. Recover free product. Add suitable absorbent to spill area. Keep Crown Galv Bulk out of sewers, watercourses and extensive land areas.

WASTE DISPOSAL METHODS: Dispose of Crown Galv Bulk in accordance with local, county, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep Crown Galv Bulk away from heat, sparks, pilot lights, static electricity and open flame. Avoid prolonged or repeated contact with skin and/or breathing of vapors when handling. Keep containers closed when not in use.

OTHER PRECAUTIONS: EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Section 8 – DEFINITIONS

CAS No.	Chemical Abstracts Service Number	PEL	Permissible Exposure Level
TLV	Threshold Limit Value	TWA	Time Weighted Average
STEL	Short Term Exposure Limit	CLG	Ceiling Limit
IARC	International Agency for Research on Cancer	NTP	National Toxicology Program
ACGIH	American Conference of Governmental Industrial Hygienists		

Section 9 – COMMENTS

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES: The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use.

CALIFORNIA PROPOSITION 65 INFORMATION: WARNING! This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.